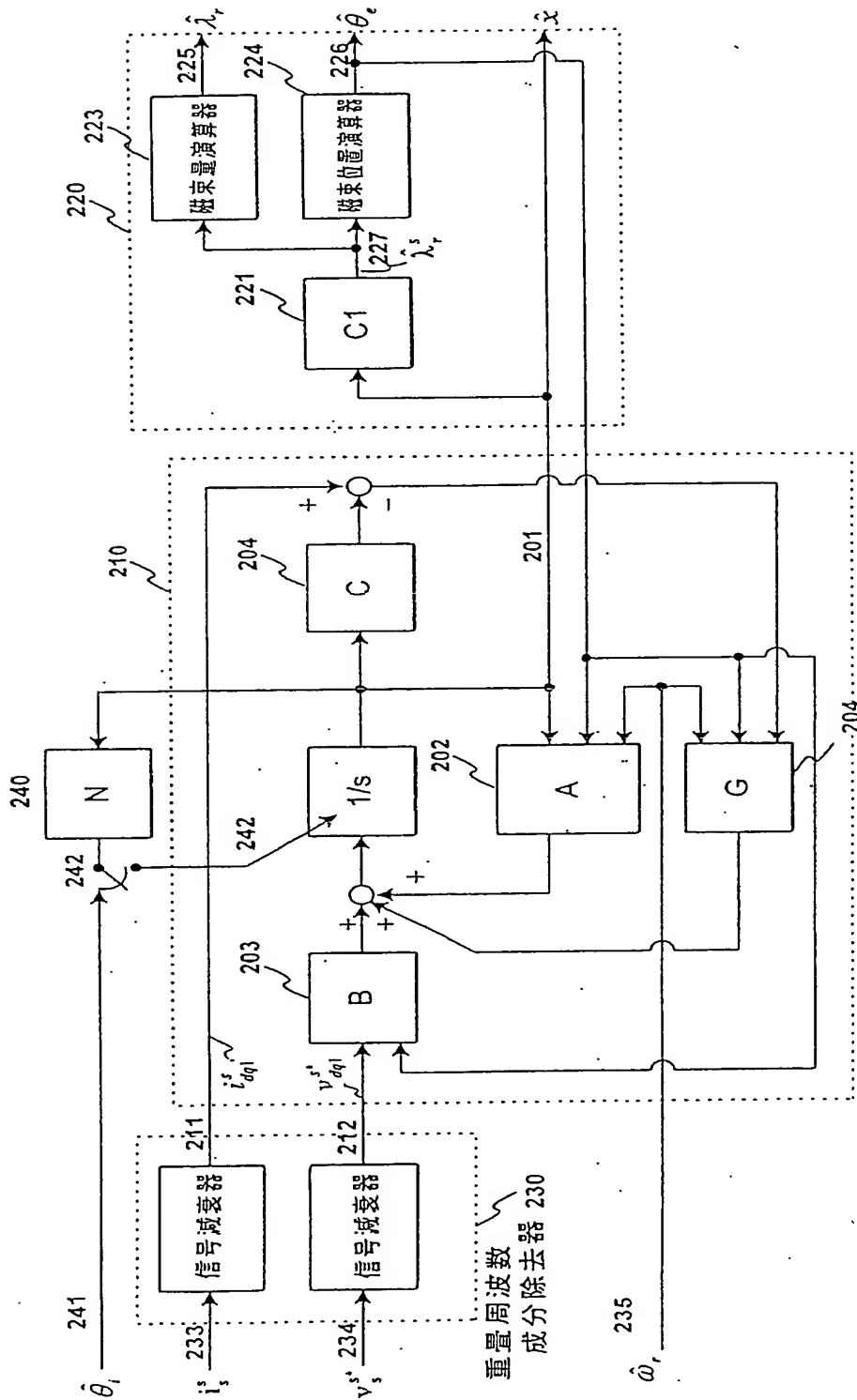


The diagram illustrates a speed feedback control system for a synchronous motor. The motor (交流電動機) is connected to an inverter (インバータ) via a feedback voltage divider (電圧型インバータ). The system includes a current control loop (電流制御器) and a speed control loop (速度制御器). The position and speed feedback loops (回転子位置推定器, 速度推定器) provide feedback signals to the speed control loop. The high-frequency components (高周波成分抽出器, 高周波発生器と磁束調整器) are used to extract and generate high-frequency signals for the current control loop. The diagram also shows various gain and integration blocks (1, 1/10, 1/s) used in the control loops.

Fig. 2



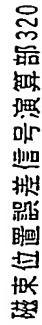
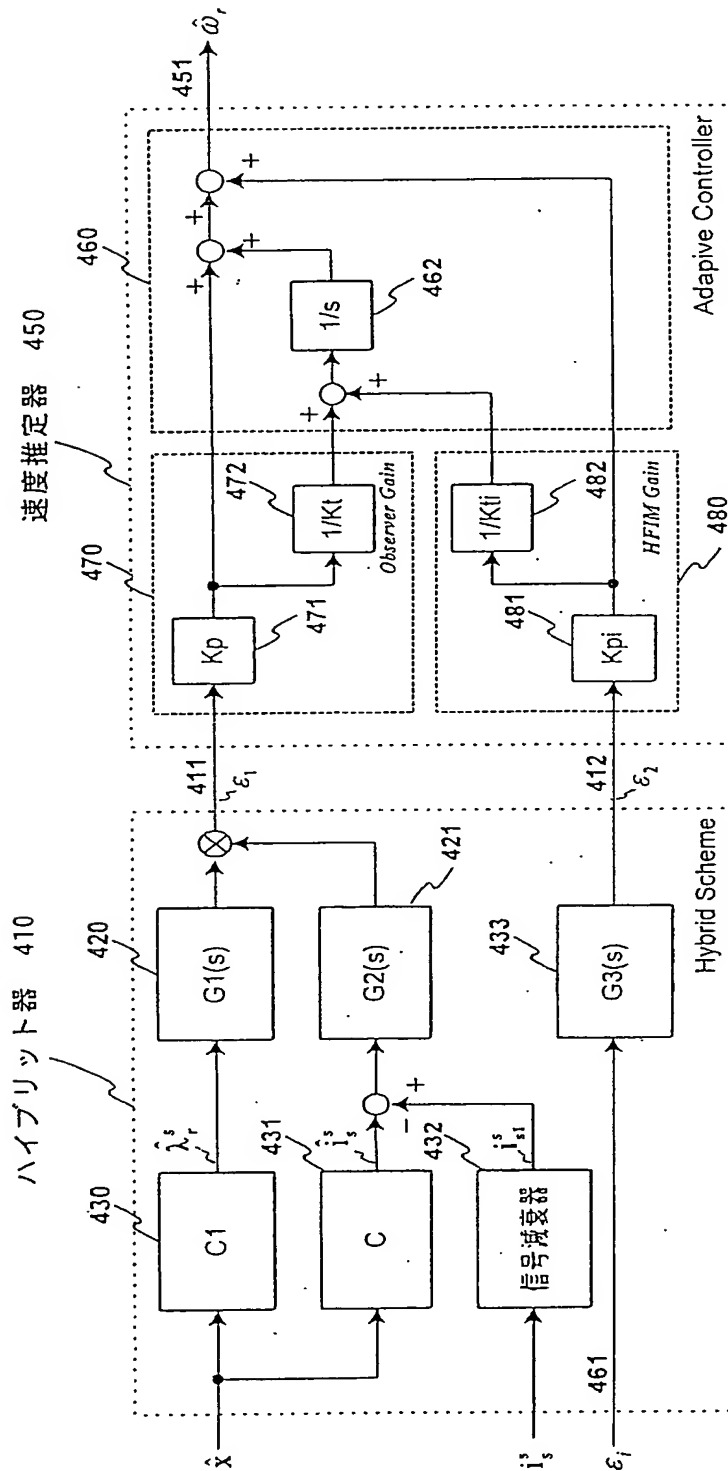
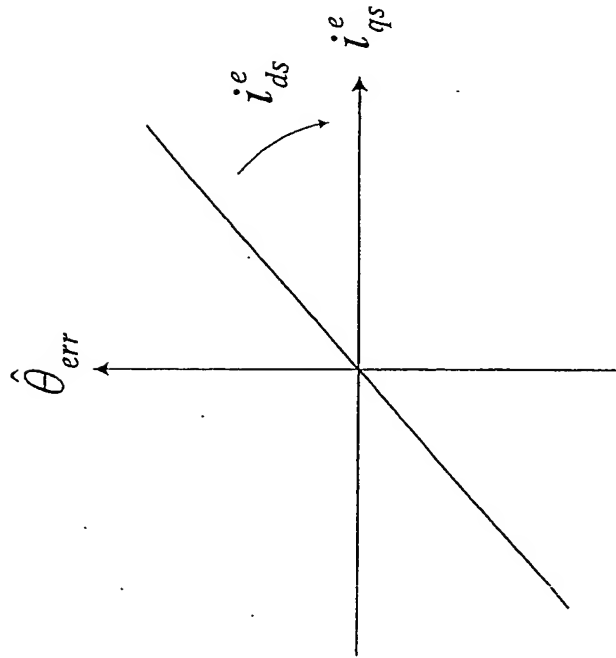
~~図 3~~

Fig. 4

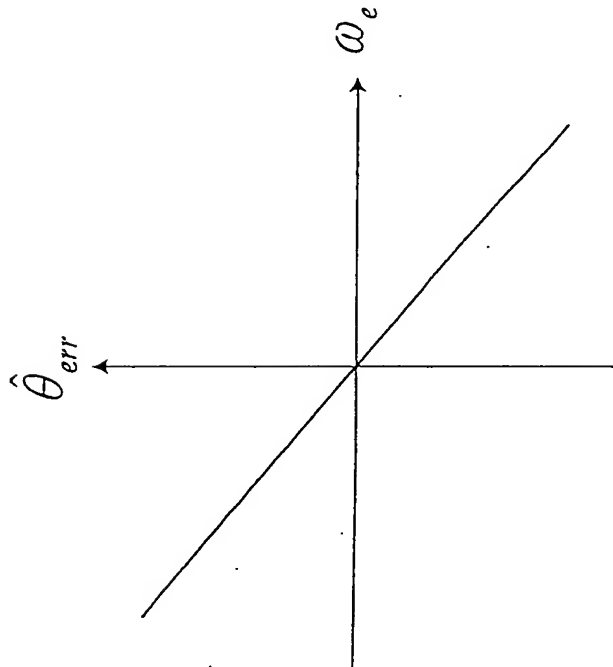


[illegible]

~~Fig. 7~~ Fig. 7



~~Fig. 6~~ Fig. 6



~~8~~ Fig. 8

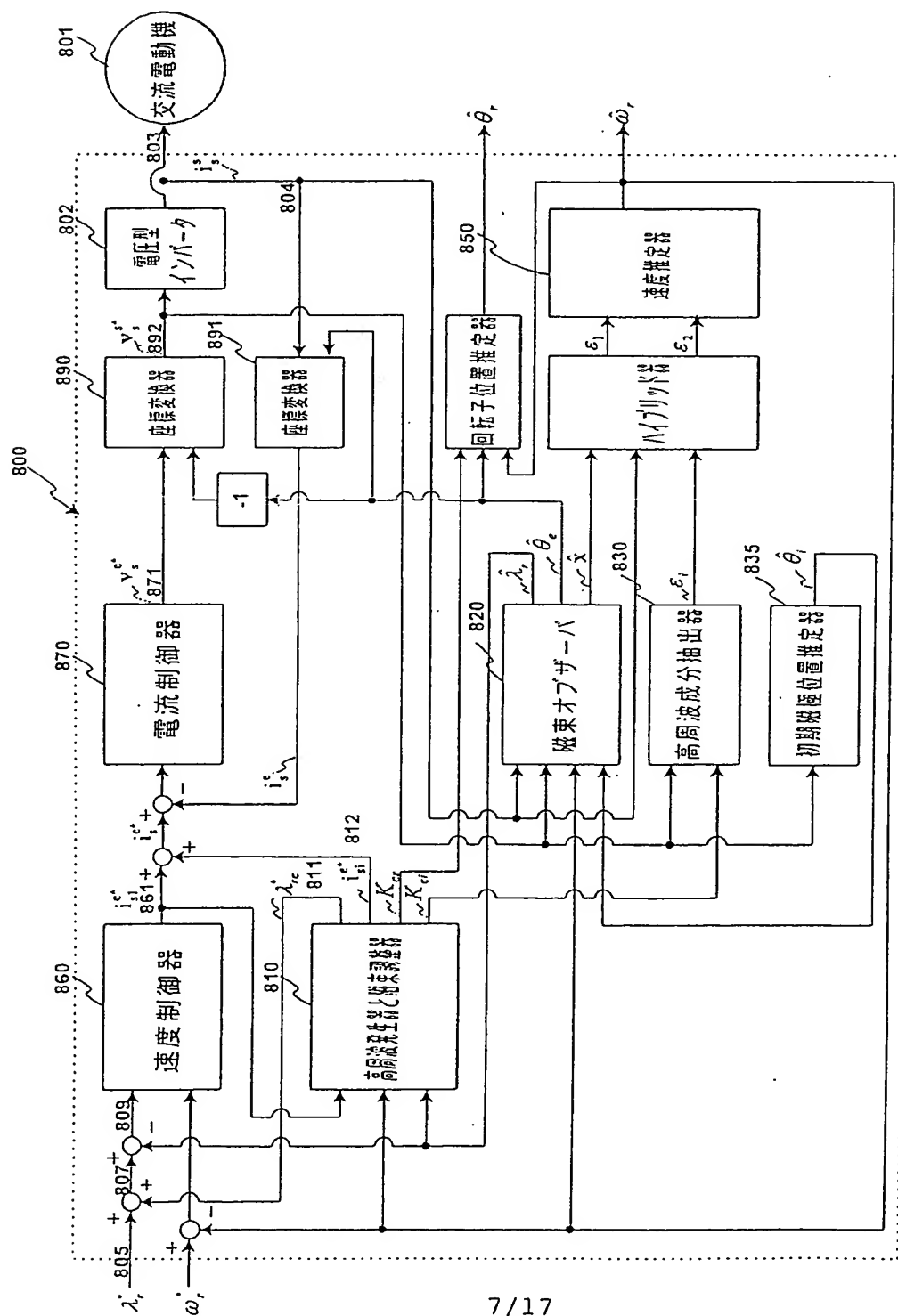


Fig. 9

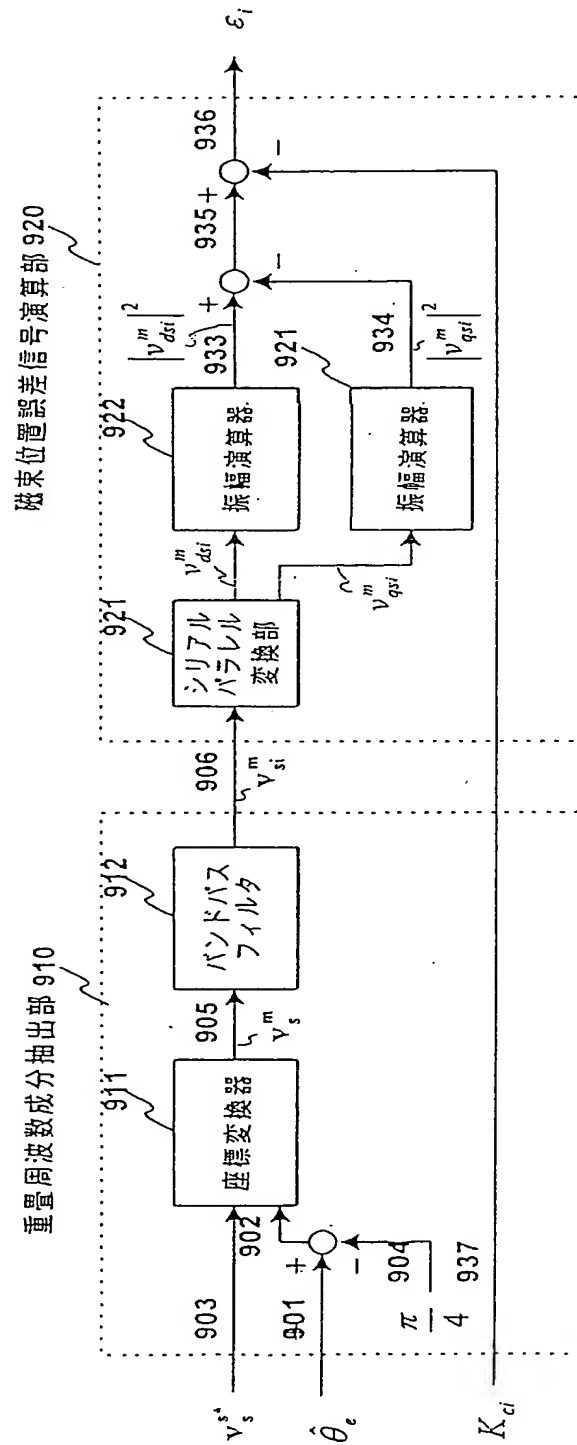
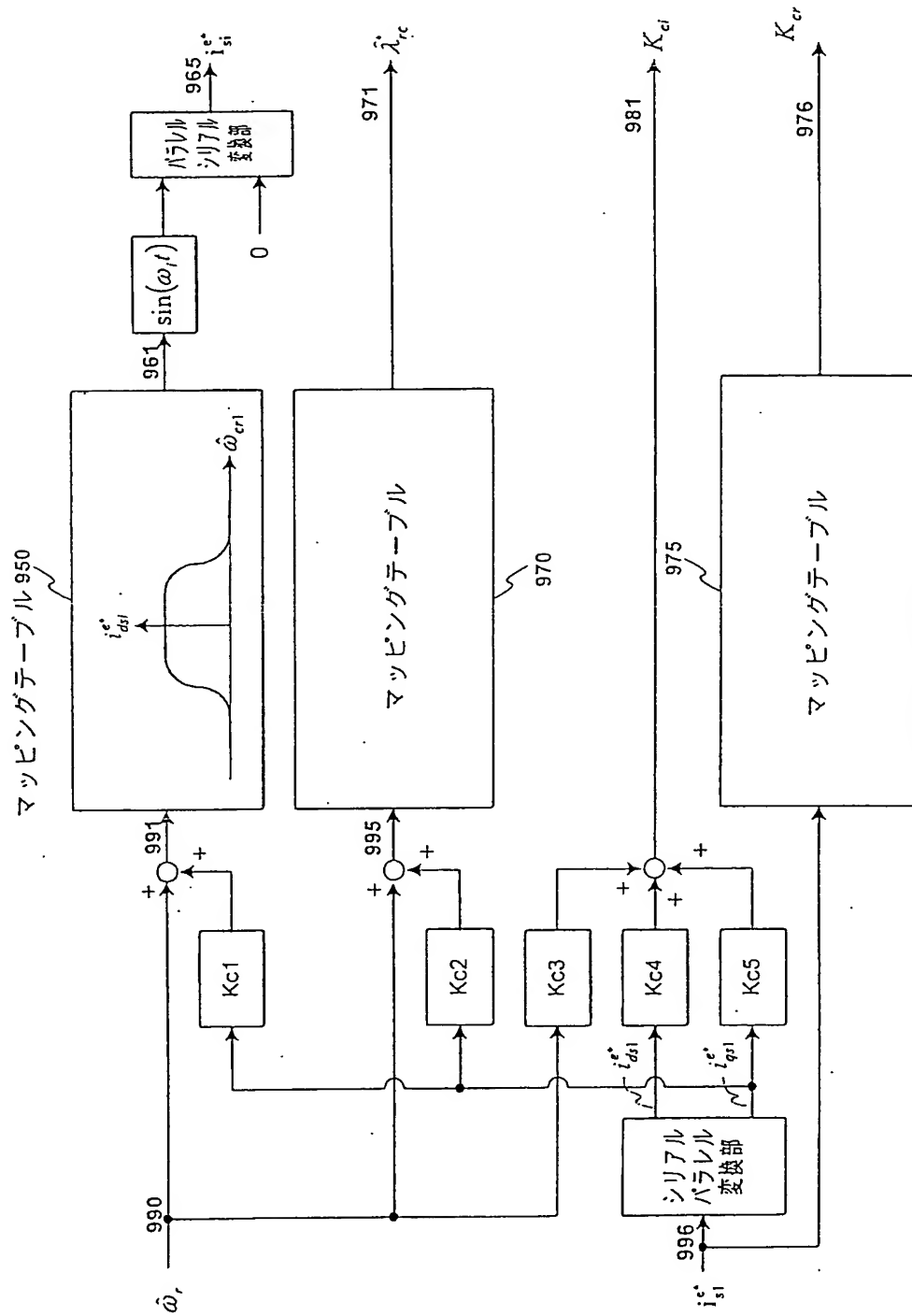
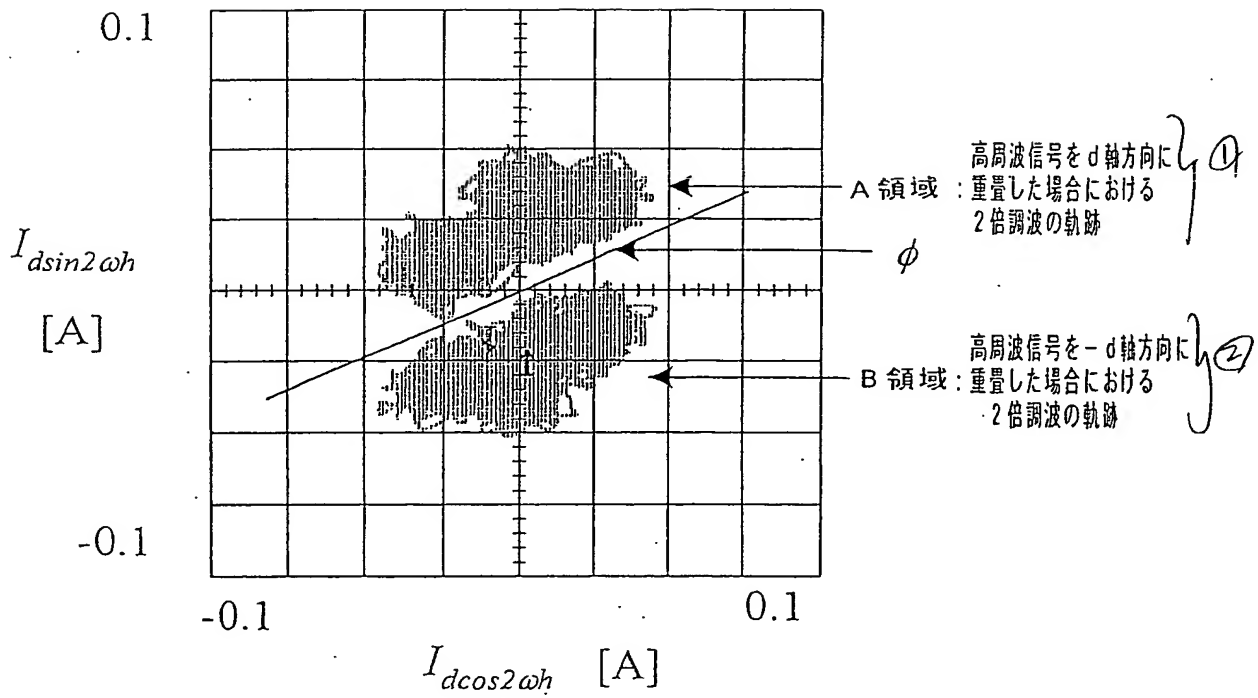




Fig. 10



~~Fig. 11~~ Fig. 11



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~~Fig. 12~~ Fig. 12

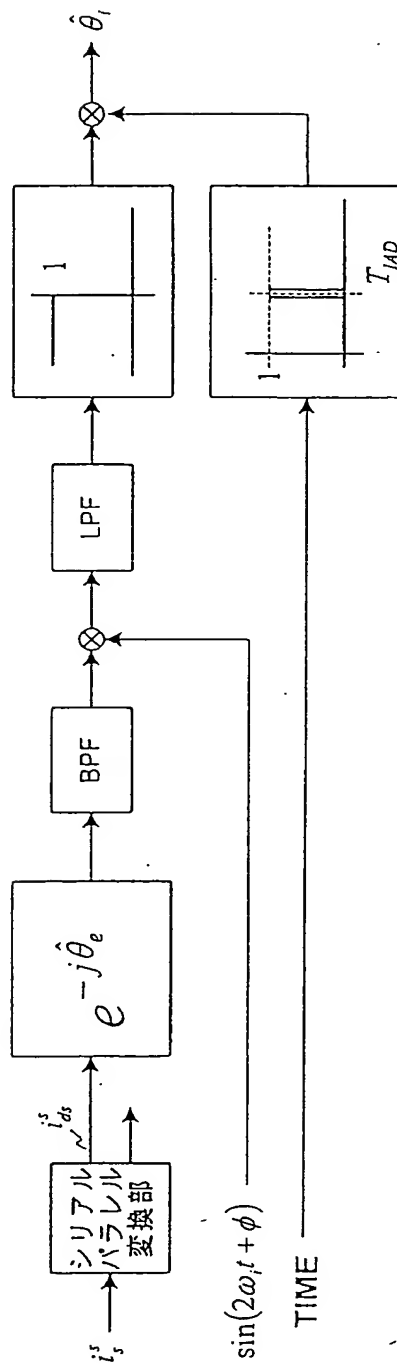


Fig. 13

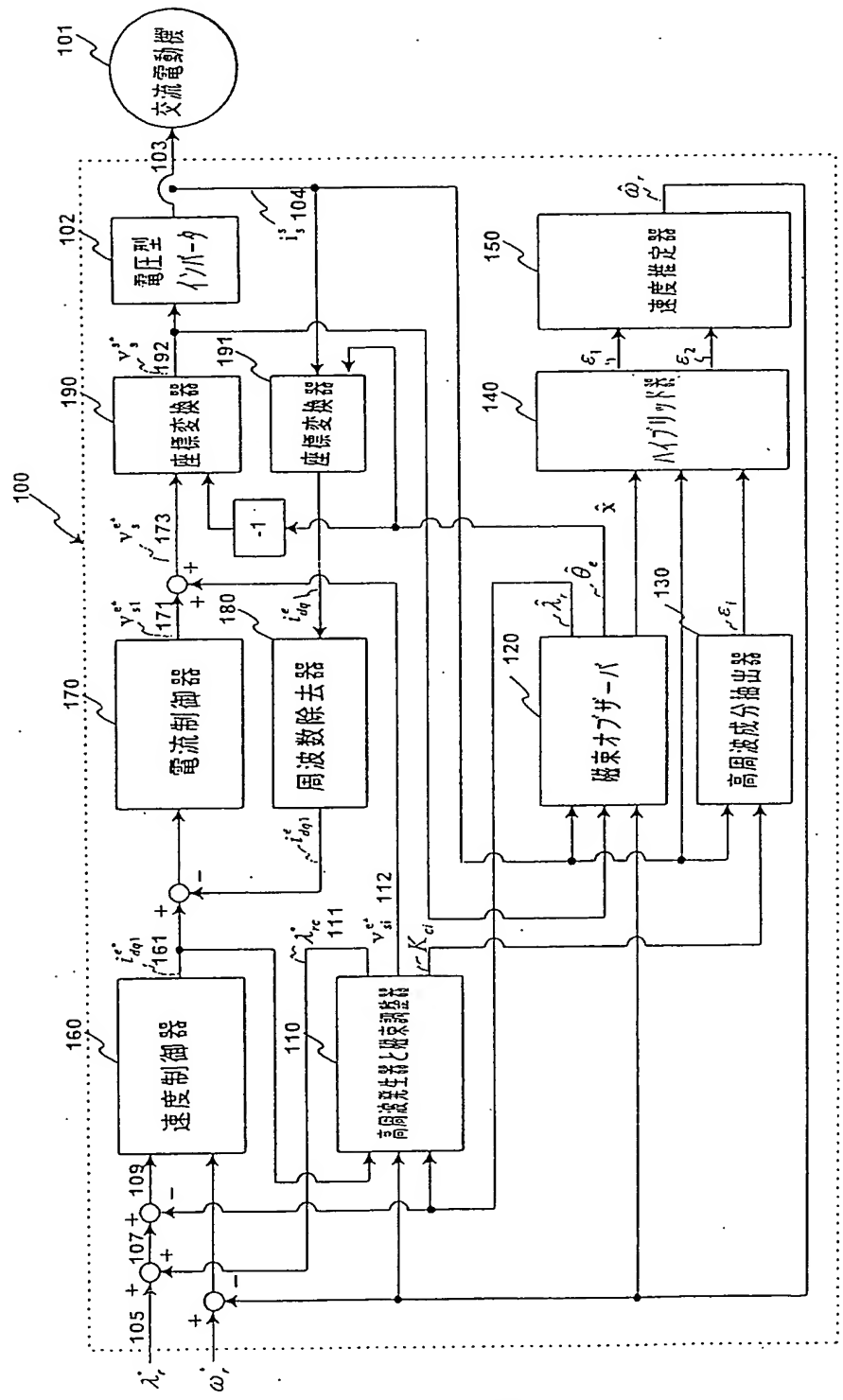


Fig. 14

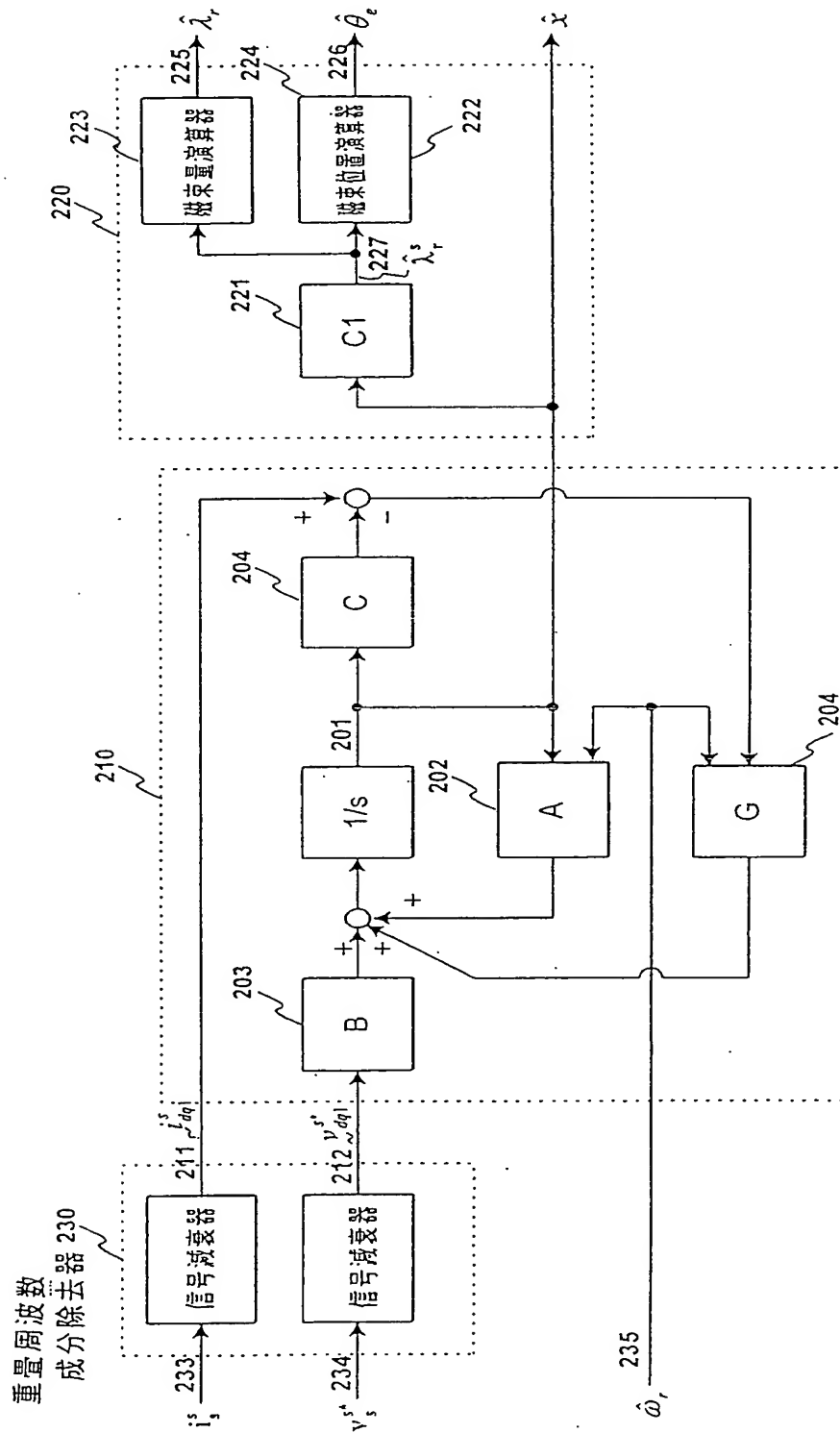


Fig. 15

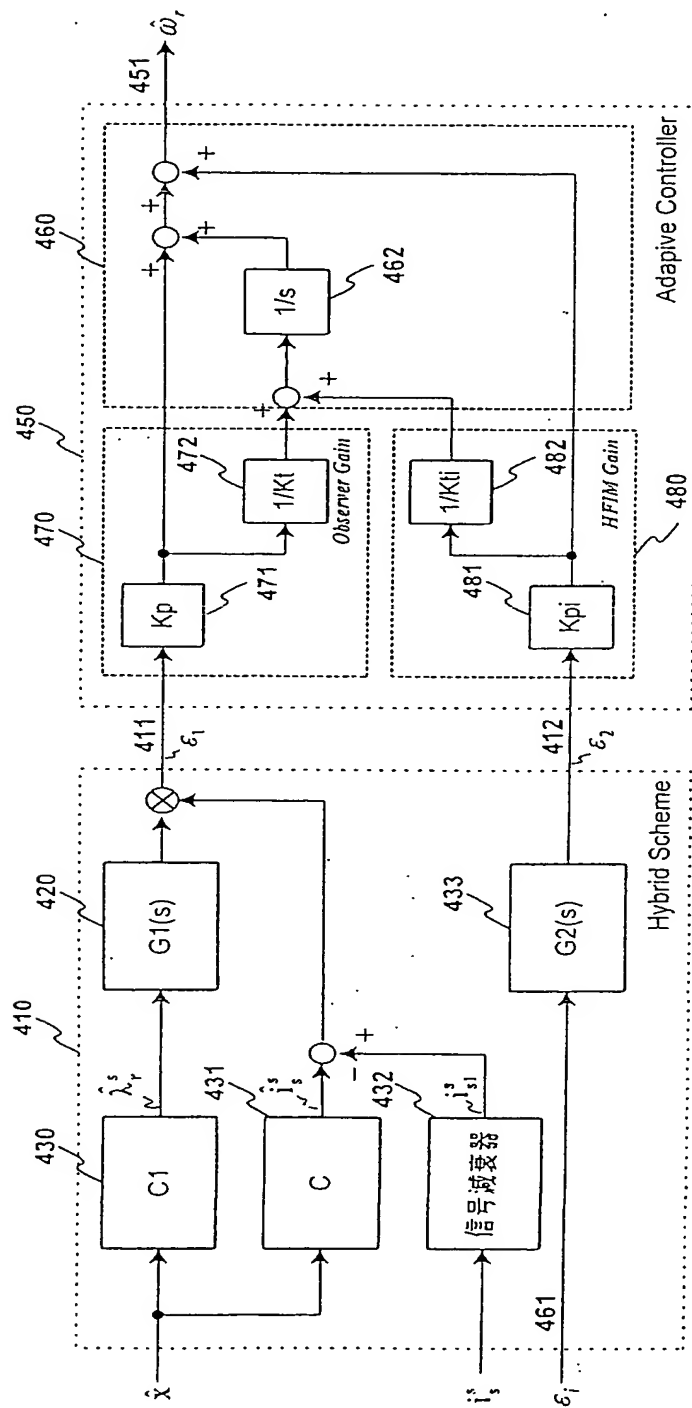


Fig. 16

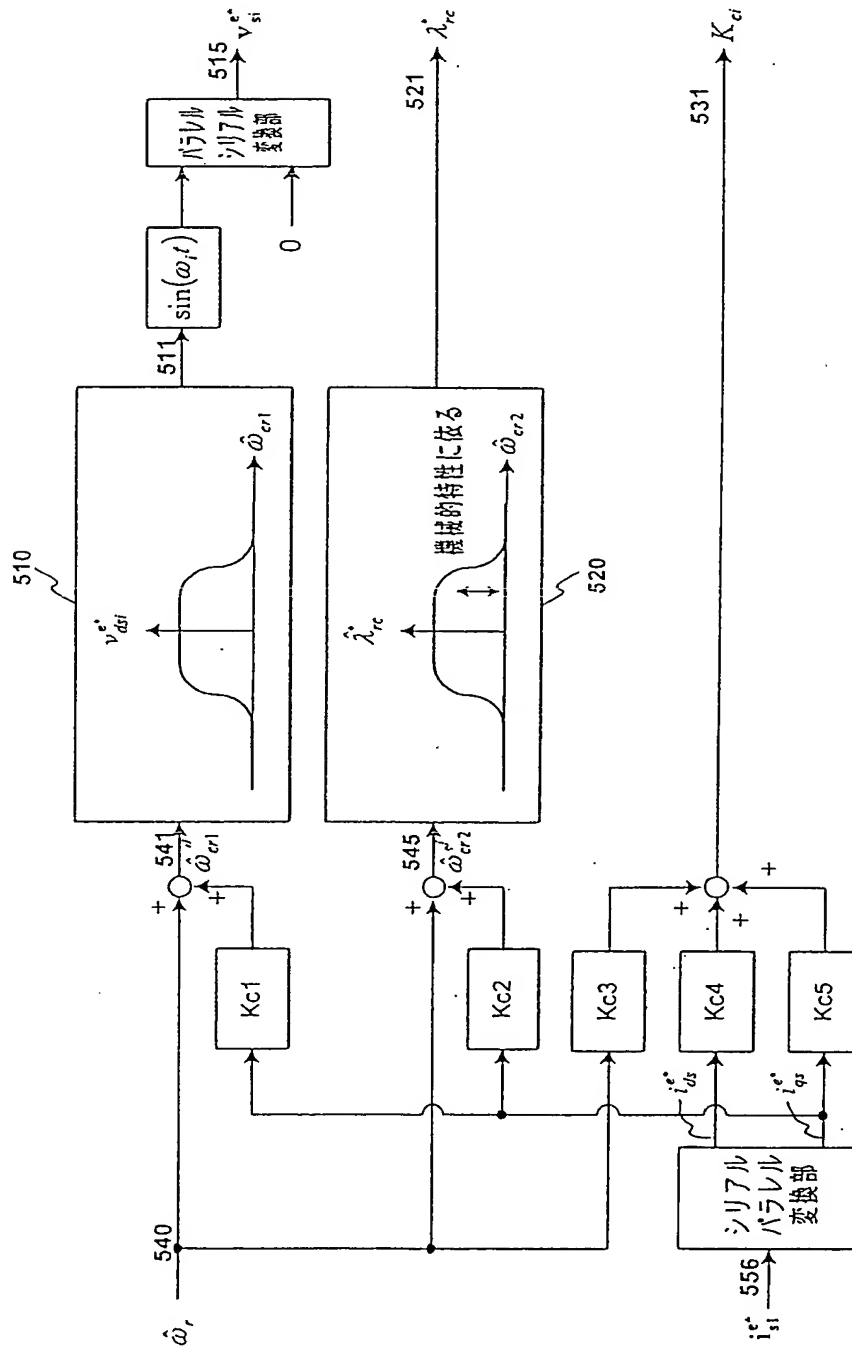
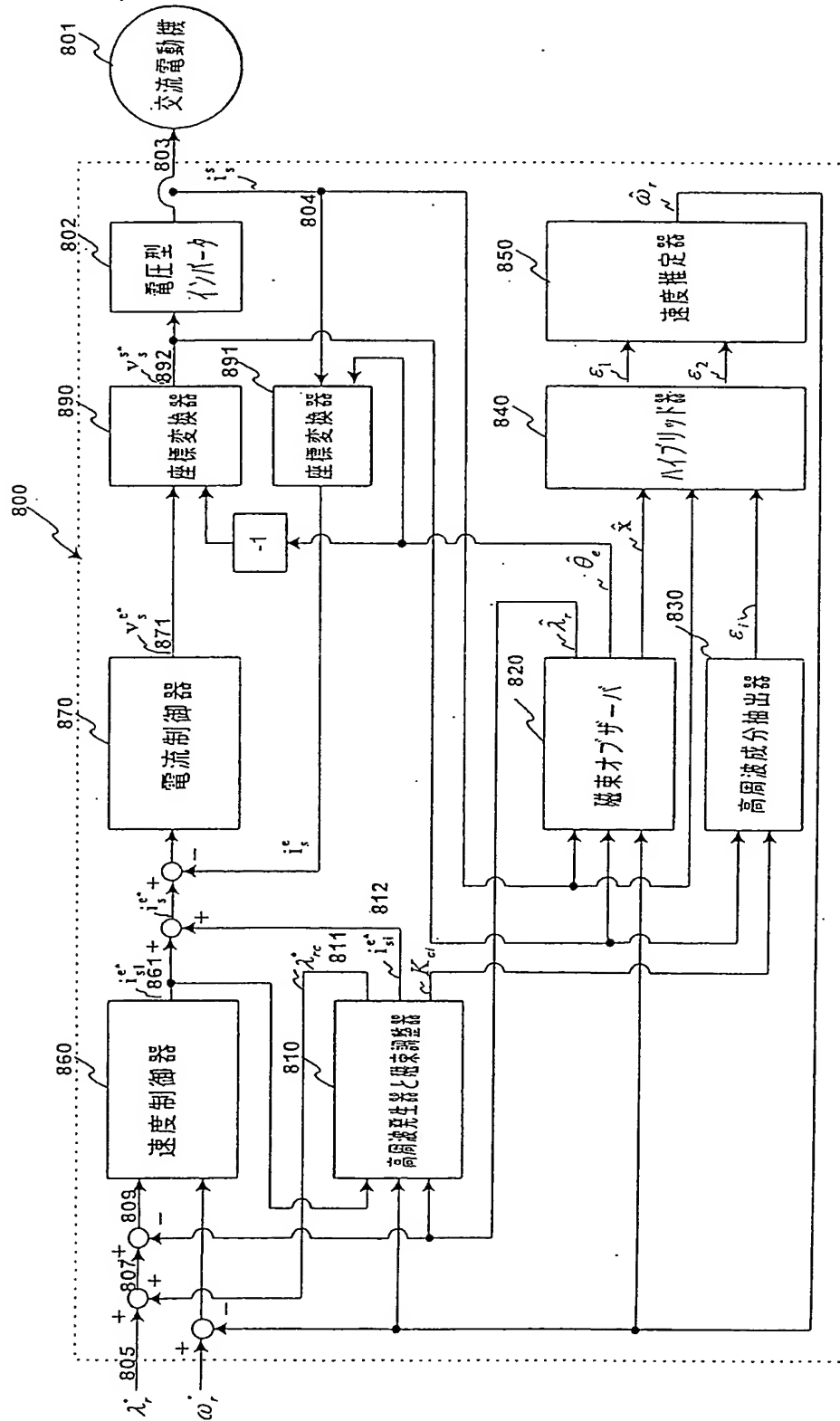


Fig. 17





~~Fig. 18~~ Fig. 18

